

Publications From the 1990s Functional & Applied Biomechanics Section

---- 1999 ----

Stanhope SJ. Clinical Movement Analysis in the 21st Century. Proceedings of the Italian Clinical Movement Analysis Society (SIAMOC). 1999;1:9-12.

Kepple T, Siegel K, Stanhope S. Modeling the relative compensatory ability of lower extremity muscle groups during normal gait. *Gait & Posture*. 1999;9:119-20.

Kepple TM, Lohmann-Siegel K, Stanhope SJ. Modeling the Relative Compensatory Ability of Lower Extremity Muscle Groups During Normal Gait. *Gait & Posture*. 1999;9(2):119-120.

Haideri N, Kepple T, Stanhope S. Evaluation of parameters used to Describe Balance Strategies. *Gait & Posture*. 1999;9(2):122.

Lohmann-Siegel K, Kepple TM, Stanhope SJ. Joint Moment Contributions to Segmental Power During Walking. *Gait & Posture*. 1999;9(2):113-114.

Benvenuti F, Mercacci R, Landina L, Ferrandino L, Baroni A, Hallett M, Stanhope SJ. Balance Control during Quiet Standing: Adaptations to Changes in Base of Support and Absent Vision *Gait & Posture*. 1999;9(2):147.

Mercacci R, Benvenuti F, Ferrandino L, Landini L, Baroni A, Hallett M, Stanhope SJ. Balance Control During Quiet Standing: Modifications with Aging. *Gait & Posture*. 1999;9(2).

Siegel KL, Verhagen L. Changes in gait following simultaneous bilateral posteroventral pallidotomy for Parkinson's disease. *Physical Therapy*. 1999;79:S56.

Ferrandino L, Landini L, Baccini M, Mecacci R, Benvenuti F, Stanhope SJ. The Effect of Stroke on Postural Symmetry. Proceedings of the Italian Clinical Movement Analysis Society (SIAMOC). 1999;1:75.

Sonies BC, Scheib D, Solomon BI, Chi-Fishman G. When the Practitioner becomes the patient. abstract, ASHA. 1999;170.

Gatev P, Thomas S, Kepple T, Hallett M. Feedforward ankle strategy of balance during quiet stance. *Journal of Physiology (London)*. 1999;514:915-928.

Adams EM, Frank P, Yarbora C, Hicks JE, Thornton B, McGarvey C, Sonies BC, Bartlett M, Lourdes V, Fleisher T. A Pilot Study: Use of Fludarabine for Refractory Dermatomyositis and Polymyositis, and Examination of Endpoint Measures. *Journal of*

Rheumatology. 1999;26:2, 352-360.

Benvenuti F, Mecacci R, Gineprari I, Bandinelli S, Benvenuti E, Ferrucci L, Baroni A, Rabuffetti M, Hallett M, Dambrosia JM. Kinematic Characteristics of Standing Disequilibrium: Reliability and Validity of a Posturographic Protocol. Archives of PM&R. 1999;80(3):278-287.

Broniatowski M, Sonies BC, Rubin JS, Bradshaw CR, Spiegel JR, Bastian RW, Kelly JH. Current Evaluation and Treatment of Patients with Swallowing Disorders. Otolaryngology-Head and Neck Surgery. 1999.

Cooper RA, Quatrano LA, Stanhope SJ, Cavanagh PR, Miller F, Kerrigan DC, Esquenazi A, Harris GF, Winters JM. Gait Analysis in Rehabilitation Medicine. American Journal of Physical Med and Rehabilitation. 1999;78(3):278-280.

Cintas H, Gerber N, Furst G, Siegel K, Twaddell W. The brief assessment of motor function (BAMF): validity of the gross motor subscale. Physical Therapy. 1999;79:S74.

Sheehan FT, Zajac FE, Drace JE. In vivo tracking of the human patella using Cine phase contrast magnetic resonance imaging. ASME Journal of Biomedical Engineering. 1999;121:6:650-656.

---- 1998 ----

Benvenuti F, Mecacci R, Benvenuti E, Gineprari I, Bandinelli S, Ferrucci L, Rabuffetti M, Baroni A, Del Lungo I, Hallett M. The Effect of Bradykinesia on Postural Control and Stability During Quiet Standing. Gait & Posture. 1998;7(2):163.

Holden JP, Stanhope SJ. The Effect of Variation in Knee Center Location Estimates on Net Knee Joint Moments. Gait & Posture. 1998;7(1):1-6.

Gerber LH, Binder H, Berry R, Siegel KL, Kim H, Weintrob J, Lee YJ, Mizell S, Marini J. Effects of withdrawal of bracing in matched pairs of children with osteogenesis imperfecta. Archives of Physical Medicine and Rehabilitation. 1998;79(1):46-51.

O'Connell PG, Siegel KL, Kepple TM, Stanhope SJ, Gerber LH. Foot deformity, pain and mobility in rheumatoid and non-arthritis subject. Journal of Rheumatology. 1998;25(9):1681-6.

Kepple T, Siegel K, Winters J, Stanhope S. The Sensitivity of Joint Accelerations to Net Joint Moments During Normal Gait. Annals of Biomed Eng. 1998;26(51):110.

Siegel KL, Verhagen L. Pallidotomy improves walking patterns of subjects with Parkinson's disease. Gait and Posture. 1998;7(2):144.

Kepple TM, Sommer HJ, Siegel KL, Stanhope SJ. A three-dimensional musculoskeletal database for the lower extremities. *Journal of Biomechanics*. 1998;31(1):77-80.

Haideri N, Stanhope S, Kepple T. The Relative Effectiveness of Hip and Ankle Balance Strategies. *Gait & Posture*. 1998;7(2):163.

Kepple TM, Sommer HJ, Siegel KL, Stanhope SJ. Three-Dimensional Normative Database of Muscle Origins and Insertions for the Lower Extremities. *Journal of Biomechanics*. 1998;31:77-80.

O'Connell PA, Siegel KL, Kepple TM, Stanhope SJ, Gerber LH. Forefoot Deformity, Pain, and Mobility in Rheumatoid and Nonarthritic Subjects. *The Journal of Rheumatology*. 1998;25:1681-1686.

---- 1997 ----

Stanhope SJ. Does Clinical Gait Analysis Meet the Patient Care Needs of Rehabilitation Specialists? Proceeding - 19th International Conference - IEEE/EMBS, Chicago, IL. 1997;1:2836-2838.

Sonies BC, Solomon BI, Rider L, Sapper D, Apatoff A, Miller F. Swallowing and oral motor findings are common in Juvenile Idiopathic Inflammatory Myopathy. Abs, *Dysphagia*. 1997;12:107.

Sonies BC, Solomon BI, Ondrey F, McCullagh L, Greenberg F, Smith AC. Oral-motor and otolaryngologic findings in 14 patients with Smith-Magenis syndrome (17p112):Results of an interdisiplinary study. *Amer Jo of Human Genetics*. 1997;Abs, vol 61:4, A5.

Sonies B. Swallowing Disorders and Rehabilitation Techniques. *Journal of Pediatric Gastroenterology and Nutrition*. 1997;Vol 25 Suppl 1:ABS S32.

Sonies BC, Gottlieb E, Solomon BI, Matthews K, Huckabee ML. Simultaneous Ultrasound and EMG study of swallowing. Abs, *Dysphagia*. 1997;12:106.

Litvan I, Sastry N, Sonies BC. Characterizing Swallowing Abnormalities in progressive supranuclear palsy. Abstract, *Movement Disorders*. 1997.

Siegel KL, Hicks JE, Rider L, Miller F. The relationship of muscle strength and gait performance in children with juvenile idiopathic inflammatory myopathy. *Gait and Posture*. 1997;5(2):158-159.

Kepple T, Siegel KL, Stanhope SJ. The Use of Two Foot-floor Models to examine the Role of the Ankle Plantar Flexors in the Forward Acceleration of Normal Gait. *Gait & Posture*. 1997;5(2):172-173.

Kepple T, Siegel K, Stanhope S. Relative contributions of the lower extremity joint moments to forward progression and support during gait. *Gait and Posture*. 1997;6:1-8.

Shrader JA, Siegel KL. Postsurgical hindfoot deformity of a patient with rheumatoid arthritis treated with custom-made foot orthoses and shoe modifications. *Physical Therapy*. 1997;77(3):296-305.

Dalakas MC, Sonies BC, Dambrosia J, Sekul E, Cupler E, Sivakumar K. Treatment of Inclusion Body Myositis with IVIg: A double-blind, placebo-controlled Study. *Neurology*. 1997;48:712-716.

Holden JP, Chou G, Stanhope SJ. Changes in knee joint function over a wide range of walking speeds. *Clinical Biomechanics*. 1997;12(6):375-382.

Holden JP, Orsini JA, Siegel KL, Kepple TM, Gerber LH, Stanhope SJ. Surface Movement Errors in Kinematic and Kinetic Measurements of Gait. *Gait and Posture*. 1997;5:217-227.

Benvenuti F, Stanhope SJ, Thomas SL, Panzer VP, Hallett M. Flexibility of Anticipatory Postural Adjustments Revealed by Self-Paced and Reaction-Time Arm Movements. *Brain Research*. 1997;761(1):59-70.

Sonies BC. Evaluation and Treatment of Speech and Swallowing Disorders associated with Myopathies. *Current Opinion in Rheumatology*. 1997;9(6):486-495.

Kepple TM, Siegel KL, Stanhope SJ. Relative Contributions of the Lower Extremity Joint Moments to Forward Progression and Support During Gait. *Gait and Posture*. 1997;6:1-8.

Benvenuti F, Bandinelli S, Benvenuti E, Ferrucci L, Gineprari I, Mecacci R, Baroni A, Rabuffetti M, Hallett M, Stanhope SJ. Test-retest Reliability and Concurrent Validity of a Posturographic Protocol. *Gait & Posture*. 1997;5(2):185-186.

---- 1996 ----

Sonies BC. Ethical Dilemmas in Dysphagia Practice, Clinical Management of Dysphagia, *Topics in Stroke Rehabilitation*. Aspen Press. 1996;3(3):1-7.

Sonies B, Wang C, Sapper DJ. Evaluation of Normal and Abnormal Hyoid Bone Movement during Swallowing by Use of Ultrasound Duplex-Doppler Imaging. *Ultrasound in Medicine and Biology*. 1996;22(9):1169-1175.

Sonies BC. Dysphagia and Post-Polio Syndrome: Past, Present and Future. *Seminars in Neurology*. 1996;16(4):365-370.

Siegel KL, Kepple TM, Caldwell GE. Improved agreement of foot segmental power and

rate of energy change during gait: Inclusion of distal power terms and use of three-dimensional models. *Journal of Biomechanics*. 1996;29(6):823-827.

Sonies BC. Dysphagia and the Post-Polio Syndrome: Past, Present and Future Seminars in Neurology. 1996;16(4):365-370.

Stanhope SJ, Thomas S, Kepple T, Hallett M. Dynamic Limits of the Ankle Strategy During Standing Balance. *Gait & Posture*. 1996;4:173-174.

Hicks JE, Siegel KL, Miller FW, Rider LG. Muscle strength in key lower extremity muscles predicts walking speed in juvenile idiopathic inflammatory myopathy. *Arthritis and Rheumatism*. 1996;39(9):S192.

Holden JP, Chou G, Stanhope SJ. Interpreting Joint Kinetic Data: Effects of Walking Speed and Measurement Variation. *Gait & Posture*. 1996;4:168-169.

Siegel KL. Preventing limb collapse during gait: Control strategies in the severely weak lower extremity. *Gait and Posture*. 1996;4(2):202-203.

Kepple T, Siegel K, Stanhope S. Relative contributions of the lower extremity joint moments to forward progression and support during gait. *Gait and Posture*, 4, 178. 1996.

Kepple T, Siegel KL, Stanhope SJ. Relative Contributions of the Lower Extremity Joint Moments to Forward Progression and Support During Gait. *Gait & Posture*. 1996;4:178-179.

Quatrano LA, Stanhope SJ. Gait analysis in Rehabilitation Medicine. National Center for Medical Rehabilitation Research Bethesda, MD. 1996.

---- 1995 ----

Stanhope SJ. Recent Advancements in Functional Movement Analysis. *Connective Tissue Research*. 1995;31(4):s65-s68.

Siegel KL, Kepple TM, O'Connell PG, Gerber LH, Stanhope SJ. A Technique to Evaluate Foot Function During the Stance Phase of Gait. *Foot and Ankle International*. 1995;16(12):764-770.

Holden JP, Chou G, Stanhope SJ. The Effect of Extreme Walking Speeds on Net Knee Joint Moments. (Proceedings) American Society of Biomechanics, Palo Alto, CA. 1995;1:103-104.

Brown M, Stanhope S. Preventing Implementation and Tracking Errors From Becoming Judgement Errors in Functional Movement Analysis. *Gait & Posture*. 1995;3(2):88.

Stanhope SJ. Functional Movement Analysis as a Surgical Outcomes Indicator.

(Proceedings) Sixteenth Annual Reunion Day Conference, Avoiding Complications in Adult Reconstructive Surgery, West Virginia University, Department of Orthopedics, Morgantown, WV. 1995;1.

Sigel KL, Stanhope SJ. The Role of a Clinical Biomechanics Evaluation Program in a Rehabilitation Medicine Department. (Proceedings) World Conference for Physical Therapy, Washington, DC. 1995;1:714.

Siegel KL, Kepple TM, O'Connell PO, Gerber LH, Stanhope SJ. Evaluation of foot function during the stance phase of gait. *Foot & Ankle International*. 1995;16(12):764-770.

Jain M, Shrader J, Siegel K. Treatment of an adult patient with dystonia using a foot orthosis with tone-inhibiting features and shoe modifications. *Proceedings of the 12th International Congress of the World Confederation for Physical Therapy*. 1995:315.

Sonies BC, Dalakas M. Progression of oral-motor and swallowing symptoms in the post-polio syndrome. *Annals of the New York Academy of Science*. 1995;753:87-95.

---- 1994 ----

Buczek FL, Kepple TM, Siegel KL, Stanhope SJ. Translational and Rotational Joint Power Terms in a Six Degree-of-Freedom Model of the Normal Ankle Complex. *Journal of Biomechanics*. 1994;27(12):1447-1457.

Kepple TM, Arnold AS, Stanhope SJ, Siegel KL. Assessment Of A Method To Estimate Muscle Attachments From Surface Landmarks - A 3d Computer-Graphics Approach. *Journal of Biomechanics*. 1994;27(3):365-371.

Kepple TM, Arnold AS, Stanhope SJ, Siegel KL. Measurement of musculoskeletal motion from surface landmarks: A three-dimensional computer graphics approach. *Journal of Biomechanics*. 1994;27(3):365-371.

Drace JE, Sheehan FT, Pelc NJ. Quantitative patellar tracking with MR velocity distributions. *Radiology*. 1994;193:370.

Masiello GH, Stanhope SJ, Vaughn CL, Payne PA. The First Step Towards Standardization for Three Gait Laboratories. *Gait & Posture*. 1994;2(1):54.

Kepple TM, Sommer HJ, Siegel KL, Stanhope SJ. Three-Dimensional Normative Database of Muscle Origins and Insertions for the Lower Extremities. (Proceedings) American Society of Biomechanics, Columbus, OH. 1994;1:37-38.

Buczek FL, Kepple TM, Siegel KL, Stanhope SJ. Translational and Rotational Joint Power Terms in a Six Degree-of-Freedom Model of the Normal Knee. In: (Proceedings) 13th Southern Biomedical Engineering Conference, Washington, DC. 1994;1:1039-1042.

Stanhope SJ. In Vivo Measurement of Human Skeletal Motion. (Proceedings) Second World Congress of Biomechanics, Amsterdam, the Netherlands. 1994;2:149.

Buczek FL, Kepple TM, Siegel KL, Stanhope SJ. Effect of one, three, and six degree-of-freedom modeling upon joint powers at the normal knee. Proceedings of the Second World Congress of Biomechanics. 1994;151.

Buczek FL, Kepple TM, Siegel KL, Stanhope SJ. Effects of One, Three, and Six Degree-of-Freedom Modeling upon Joint Powers at the Normal Knee. (Proceedings) Second World Congress of Biomechanics, Amsterdam, the Netherlands. 1994;1:151.

Holden JP, Orsini JA, Stanhope SJ. Estimates of Skeletal Motion: Movement of Surface Mounted Targets Relative to Bone During Gait. In: (Proceedings) 13th Southern Biomedical Engineering Conference, Washington, DC. 1994;1:1035-1038.

Stanhope SJ, Holden JP, Orsini JA. Effect of Target Attachment Techniques on Estimates of Shank Skeletal Motion. Gait & Posture. 1994;2(1):58.

Siegel KL, Kepple TM, Caldwell GE. Comparison of two- and three-dimensional models used to calculate foot segmental power and energy during the stance phase of gait. Proceedings of the 18th Annual Meeting of the American Society of Biomechanics. 1994:121-122.

Stanhope SJ. An Overview of Activities in the Warren Grant Magnuson Clinical Center Biomechanics Laboratory. (Proceedings) Contributions of Biomedical Engineering to Biology and Medicine, National Institutes of Health, Bethesda, MD. 1994;1:49.

Stanhope SJ, Holden JP. A Comparison of Knee Kinetics From Surface-Mounted and Bone-Mounted Targets During Gait. (Proceedings) American Society of Biomechanics, Columbus, OH. 1994;1:123-124.

Stanhope SJ. A Procedure for Evaluating Gait Analysis System Performance. Gait & Posture. 1994;2(1):54.

Sommer HJ, Kepple TM, Siegel KL, Stanhope SJ. A Three-Dimensional Database Designed for the Analysis of Lower Extremity Human Motion. In: (Proceedings) 13th Southern Biomedical Engineering Conference, Washington, DC. 1994;1:1043-1046.

Stanhope SJ. On the Magnitude of Angular Kinematic Inaccuracies in Gait Analysis. In: (Proceedings) 13th Southern Biomedical Engineering Conference, Washington, DC. 1994;1:1031-1034.

Holden JP, Stanhope SJ, Orsini JA. Skeletal Motion Estimates: Effect of Surface Target Techniques. (Proceedings) Second World Congress of Biomechanics, Amsterdam, the Netherlands. 1994;2:372.

Siegel KL, Kepple TM, Caldwell GE. Segmental power and energy calculations at the foot during the stance phase of gait. Proceedings of the 8th Biennial Conference of the Canadian Society for Biomechanics. 1994;20-21.

---- 1993 ----

Kepple TM, Siegel KL, Stanhope SJ. Simulation of Human Walking: A Simple 3 Degree-of-Freedom Model. In: (Proceedings) Eighth Annual East Coast Clinical Gait Laboratory Conference, Rochester. 1993;1:81-82.

Siegel KL, Stanhope SJ, Caldwell GE. Stance Phase Gait Adaptations of the Lower Limbs In Unilateral Quadriceps Femoris Weakness. In: (Proceedings) Eighth Annual East Coast Clinical Gait Laboratory Conference, Rochester. 1993;1:25-26.

Siegel KL, Stanhope SJ, Caldwell GE. Kinematic and Kinetic Adaptations in the Lower Limb During Stance in Gait of Unilateral Femoral Neuropathy Patients. Clinical Biomechanics. 1993;8:147-155.

Gatev P, Thomas S, Kepple T, Hallett M. Cross correlation analysis of standing balance during quiet stance. Proceedings of the Seventh International Symposium on Motor Control. 1993.

Sonies BC. Prevention of swallowing disorders: Is it possible? ASHA. 1993;Vol 38:59-60.

Hallett M, Lebieadowska MK, Thomas SL, Stanhope SJ, Denckla MB, Rumsey J. Locomotion of Autistic Adults. Arch Neurol. 1993;50:1304-1308.

Cordaro MA, Sonies BC. An image processing scheme to quantitatively extract and validate hyoid bone motion based on real-time ultrasound recordings of swallowing. IEEE Transactions on Biomedical Engineering. 1993;40:841-844.

Sonies BC. Remediation challenges in treating post head/neck cancer: A problem oriented approach. (Ed) Logemann J, Clinics in Communication Disorders. 1993;3(4):21-26

---- 1992 ----

Barr AE, Siegel KL, Danoff JV, McGarvey CL, Tomasko A, Sable I, Stanhope SJ. Biomechanical Comparison of the Energy-Storing Capabilities of SACH and Carbon Copy II Prosthetic Feet During the Stance Phase of Gait in a Person with Below-Knee Amputation. Physical Therapy. 1992;72(5):344-354.

Buczek FL, Stanhope SJ, Kepple TM, Siegel KL. Translational and Rotational Joint Power Terms in a Six Degree-of-Freedom Model of the Ankle Complex. In: (Proceedings) North American Congress on Biomechanics II, Chicago. 1992;1:503-504.

---- 1991 ----

Kepple T. MOVE3D - Software for analyzing human motion. IEEE 1991 Future Directions Workshop. 1991:106-109.

Kepple TM, Arnold AS, Stanhope SJ. The Estimation of Muscle Origins and Insertions in a 3D Motion Analysis and Graphics Program. In: (Proceedings) Seventh Annual East Coast Clinical Gait Laboratory Conference, Montreal:. 1991;1:119-122.

Kepple T, Arnold A, Stanhope S. The estimation of muscle origin and insertions in a 3D motion analysis and graphics program. Proceedings of the International Symposium on 3-D Analysis of Human Motion. 1991:119-122.

Hallett M, Stanhope SJ, Thomas SL, Massaquoi S. Pathophysiology of Posture and Gait in Cerebellar Ataxia. In: Shimamura M, Grillner S, and Edgerton VR, eds. Neurobiological Basis of Human Locomotion Tokyo: Japan Scientific Societies Press. 1991:275-283.

O'Connell PG, Siegel K, Stanhope SJ, Kepple T, Gerber LH. Biomechanics of the Foot and Ankle in Patients with the Rheumatoid Shuffle. Arthritis and Rheumatism. 1991;34(5):Suppl:R26.

Siegel LK, Lord D, Hicks J, Kepple T, Stanhope S. Changing Adaptations in the Lower Extremities During Gait Following Sciatic Nerve Resection. In: (Proceedings) Seventh Annual East Coast Clinical Gait Laboratory Conference, Richmond:. 1991;1:session 11.

Kepple T, Arnold A, Stanhope S. A Three-Dimensional Computer Graphics Display System for Lower Extremity Musculoskeletal Motion. In: (Proceedings) Seventh Annual East Coast Clinical Gait Laboratory Conference, Richmond:. 1991;1:session 7.

O'Connell PG, Siegel LK, Kepple T, Stanhope S, Gerber LH. Gait in Rheumatoid Arthritis with Metatarsalgia. Archives of Physical Medicine and Rehabilitation. 1991;72(10):776.

Buczek F, Siegel LK, Kepple T, Stanhope S. Ground Reaction Force Signal Processing in Joint Power Calculations. In: (Proceedings) Seventh Annual East Coast Clinical Gait Laboratory Conference, Richmond. 1991;1:session 3.

Siegel KL, Kepple TM. National Institutes of Health. Data collection system and clinical applications, Proceedings of the Seventh Annual East Coast Gait Laboratories Conference. 1991.

Stanhope S, Whetstone M, Kepple T, Buczek F, Siegel KL. Nonequilibrium in the Translational Equations of Motion. In: (Proceedings) Seventh Annual East Coast Clinical Gait Laboratory Conference, Richmond. 1991;1:session 3.

---- 1990 ----

Siegel KL, O'Connell PG, Stanhope SJ, Gerber LH. Foot Function During the Stance Phase of Gait in Patients with Rheumatoid Arthritis and Forefoot Disease. In: (Proceedings) Sixth Annual East Coast Clinical Gait Laboratory Conference, East Lansing. 1990:session 7.

Stanhope SJ, Cascio HE, Smith PD. A Variable Intensity Strobe Technique for Use in Clinical Biomechanics. In: (Proceedings) Sixth Annual East Coast Clinical Gait Laboratory Conference, East Lansing. 1990:session 4.

O'Connell PG, Siegel KL, Stanhope SJ, Gerber LH. Analysis of foot/ankle biomechanics in rheumatoid arthritis with forefoot pain. *Arthritis and Rheumatism*. 1990;33(9)Suppl:S123.

Siegel KL, Kepple TM, Stanhope SJ, Gerber LH. Development of a Sagittal Plane Spatial Step Analysis with Application to a Pediatric Population with Osteogenesis Imperfecta. In: (Proceedings) Sixth Annual East Coast Clinical Gait Laboratory Conference, East Lansing. 1990:session 1.

Stanhope SJ, Kepple TM, McGuire DA, Roman NL. A Kinematic-Based Technique for Event Time Determination During Gait. *Medical and Biological Engineering and Computing*. 1990;28:355-360.

Kepple TM, Stanhope SJ, Lohmann KN, Roman NL. A Video Based Technique For Measuring Ankle-Subtalar Motion During Stance. *Journal of Biomedical Engineering*. 1990;12:273-280.

---- 1989 ----

Siegel KL, Slutsky A, Kepple T, Stanhope SJ. Biomechanical Evaluation of a Proteus Syndrome Patient's Gait. In: (Proceedings) Fifth Annual East Coast Clinical Gait Laboratory Conference, Bear Mountain. 1989:session 8.

Kepple T, Stanhope SJ. A Video Based, Six Degree of Freedom Approach for Analyzing Human Motion. In: (Proceedings) Fifth Annual East Coast Clinical Gait Laboratory Conference, Bear Mountain. 1989:session 5.

Caruso AJ, Stanhope SJ, McGuire DA. A New Technique for Acquiring Three-Dimensional Orofacial Nonspeech Movements. *Dysphagia*. 1989;4:127-132.

Gundersen LA, Valle DR, Barr AE, Danoff JV, Stanhope SJ, Snyder-Mackler L.

Bilateral Analysis of the Knee and Ankle During Gait: An Examination of the Relationship Between Lateral Dominance and Symmetry. *Physical Therapy*. 1989;69:640-650.

---- 1988 ----

Friedli WG, Cohen LG, Hallett M, Stanhope S, Simons SR. Mechanisms of Postural Stabilization with Rapid Voluntary Arm Movements. II Biomechanical Analysis. *J Neurol Neurosurg Psychiatry*. 1988;51:232-243.

Gerber L, Berry R, Stanhope S. Advances in Skeletal Bracing for Children with Osteogenesis Imperfecta. In: Cutler GB ed. *The International Symposium on Endocrine Disorders (Excerpta Medica)*. 1988:19-24.

Kepple T, Stanhope S, Rich A. The presentation and evaluation of a video based, six degree-of-freedom approach for analyzing human motion. *Proceedings of the Annual IEEE Engineering in Medicine and Biology Society*. 1988.

Bieber JM, Coates JC, Lohmann(Siegel) K, Danoff J. The effects of pronation-controlling orthotic devices on pressure and force under the foot during dynamic stance. *Physical Therapy*. 1988;68(5):805.

Kepple TM, Stanhope SJ, Rich AH. The Presentation and Evaluation of a Video Based, Six Degrees of Freedom Approach for Analyzing Human Motion. In: (Proceedings) *IEEE Engineering in Medicine and Biology Society*, New Orleans. 1988;10:649.

Caruso AJ, McGuire DA, Stanhope SJ, Sonies BC. Three-Dimensional Analysis of Multiarticulate Speech Movements: A New Technique. In: (Proceedings) *American Speech and Hearing Association*,. 1988.

Stanhope SJ, Kepple TM, McGuire DA, Roman NL. A Kinematic-Based Technique for Event Time Determination During Gait. In: (Proceedings) *Fourth Annual East Coast Clinical Gait Laboratory Conference*, University Park. 1988;38.

Stanhope SJ, Jarrett MO. A Position Adjustable Force Plate Mounting System. In: (Proceedings) *IEEE Engineering in Medicine and Biology Society*, New Orleans. 1988;10:655.

Stanhope SJ, O'Connell PG, Reyburn TV. A Technique for Evaluating Upper Extremity Prosthetic Design. *Archives of Physical Medicine and Rehabilitation*. 1988;69:731.

Hicks JE, McGarvey CL, Stanhope SJ, Malawer M. Assessment of Function in Osteogenic Sarcoma Lower Limb Spared Patients (LS). *Archives of Physical Medicine and Rehabilitation*. 1988;69:706.

Barr AE, Tomasko A, Lohmann KN, Danoff JV, Sable I, Stanhope SJ. Biomechanical Analysis of Unilateral Below-Knee Amputee Gait with SACH and Carbon Copy II Prosthetic Feet: A Case Study. In: (Proceedings) Fourth Annual East Coast Clinical Gait Laboratory Conference, University Park. 1988;16.

Gerber L, Roman NL, Stanhope SJ. Kinematic and Kinetic Evaluation of Long Leg Bracing in Children and Infants with Osteogenesis Imperfecta (OI). In: (Proceedings) Fourth Annual East Coast Clinical Gait Laboratory Conference, University Park. 1988;9.

Lohmann KN, Stanhope SJ, Levinson S, May C. Effect of Lumbar Puncture on the Gait of a Patient with Normal Pressure Hydrocephalus. In: (Proceedings) Fourth Annual East Coast Clinical Gait Laboratory Conference, University Park. 1988;10.

Gerber LH, Roman NL, Stanhope SJ, Neale DM. Kinetic and Kinematic Evaluation of Long Leg Bracing in Children with Osteogenesis Imperfecta (OI). Archives of Physical Medicine and Rehabilitation. 1988;69:730.

Stanhope SJ, Hicks JE, Malawer M, Baker AR. Knee Joint Control Mechanisms in the Limb Spared Patient. Archives of Physical Medicine and Rehabilitation. 1988;69:745.

---- 1987 ----

Stanhope SJ. Interactions Between the Anterior Abdominal Wall Musculature of Athletes. In: Terauds J, Gowitzke BA, Holt LE eds. Biomechanics In Sports III and IV; Del Mar: Academic Publishers. 1987:410-419.

Gerber L, Stanhope SJ, Kepple T, Hunt G, Fromherz W, Hurwitz S. Effects of Leg-hindfoot Orthosis on Stride and Kinetic Measures of Gait in Rheumatoid Arthritis. In: (Proceedings) American Rheumatism Association. 1987.

Coates JC, Bieber JM, Lohmann (Siegel) K, Danoff J, Novick A. Effect of orthotic devices for pronated feet on ankle and knee moments during the stance phase of gait. Physical Therapy. 1987;67(5):755.

Stanhope SJ. Anterior Abdominal Wall Mechanics. In: (Proceedings) International Society of Electrophysiological Kinesiology (ISEK), Baltimore. 1987.

Kepple T. The evaluation of a technique for computing three-dimensional angular displacements from video data -- the ankle subtalar complex as an example. Proceedings of the Third Annual East Coast Gait Laboratories Conference. 1987.

Lohmann (Siegel) KN, Rayhel HE, Schneiderwind WP, Danoff JV. Static measurement of tibia vara: Reliability and effect of lower extremity position. Physical Therapy. 1987;67(2):196-202.

---- 1986 ----

Cohen LG, Friedli W, Hallett M, Stanhope SJ, Simon SR. Biomechanical Analysis of Standing Posture with Rapid Arm Movements. In: (Proceedings) Society For Neuroscience 16th Annual Meeting. 1986;12:1302.

Stanhope SJ. Optimization of the Vicon Hardware. Vicon User's Newsletter. 1986;2:3-9.

---- 1985 ----

Lohman (Siegel) KN, Rayhel HE, Schneiderwind, Danoff JV. Effect of lower extremity position during static measurement of tibia vara. Physical Therapy. 1985;65(5):698-699.

---- 1983 ----

Stanhope SJ. Electromyographic Analysis of Molbech's Two-joint Muscle Model. Microform Publications. 1983;call number QP303.